Bee T

Gel Electrophoresis

1. Prepare a 1% weight-to-volume agarose gel (400ml)
   a. Dilute stock of 50×TAE to 1×with ddH2O.
   b. Measure 400 ml of 1×TAE buffer.
   c. Transfer 1×TAE buffer to Duran bottle
   d. Weigh out enough agarose to make 1% gel. (1% of 400mL is 4.0 g)
   e. Transfer agarose to Duran bottle.
   f. Melt agarose in microwave, stirring ever 15-20 seconds until completely melted.
   g. Allow gel to cool until Duran bottle can be handled comfortably, pour agarose into gel tray, assemble gel pouring apparatus by inserting gate into slots
2. Allow agarose to cool, place the gel in the apparatus rig with the wells facing the negative end (black-colored)
3. Fill the rig with 1x TAE buffer
4. Load 2μL of DNA maker into lane
5. Mix 1μL of 6x loading buffer with 2μL DNA sample, load them into lane.
6. Run at 100V for 30 min.
7. Use Ethidium bromide dyeing gel ten minutes.(EB is dangerous to work with; Gloves must be worn at all times during the whole procedure)
8. Use Gel imaging system check gel.
9. Take picture for gel